Clean And Green Technology

Team Name: Eco Warriors

Team Number: CGT-36

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Introduction:

In today's digital age, the importance of sustainability and environmental consciousness extends to the online world. A "Clean and Green Website" refers to a website that is designed, developed, and managed with a strong commitment to environmental sustainability and minimal ecological impact. This concept embodies a holistic approach to web design and maintenance that aligns with eco-friendly principles and practices.

Problem Statement:

Student Innovation on improvement of Waste Management, Sanitization and Recycling the Collected Waste.

Technologies Used:

➤ **Frontend:** HTML, CSS , Java Script , Bootstrap

➤ **Backend:** Java Full stack (Spring Boot)

➤ **API:** Google Map API, Payment Gateway API

Solution:

We are looking for a solution by creating a web-based Application that will serve as a platform for customers to get rid of accumulated plastic and other recyclable waste at home and get profit for the panchayat or head office by selling the products that are been recycled.

->The prototype will function as follows:

- • The flowchart of the prototype:

  Link:
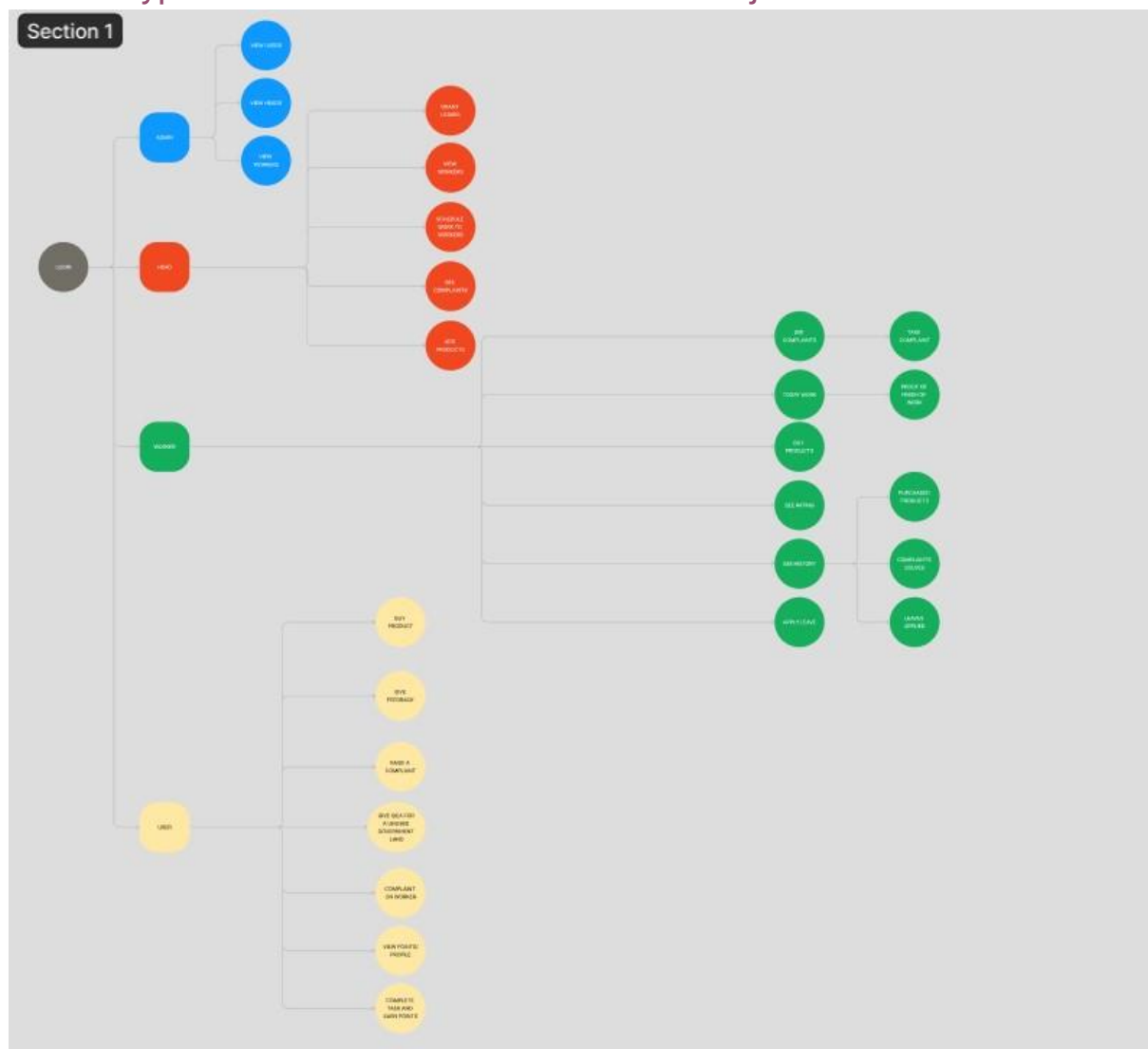 https://www.figma.com/file/E0KtyByYctpA4zg7MAdZA1/Untitled?type=whiteboard&t=Rt44DaUUob238tWj-0

Fig-1 : Flow chart

Explanation:

->In the above flowchart there are 3 logins i.e Admin Login ,Head Login, Worker Login and User Login.
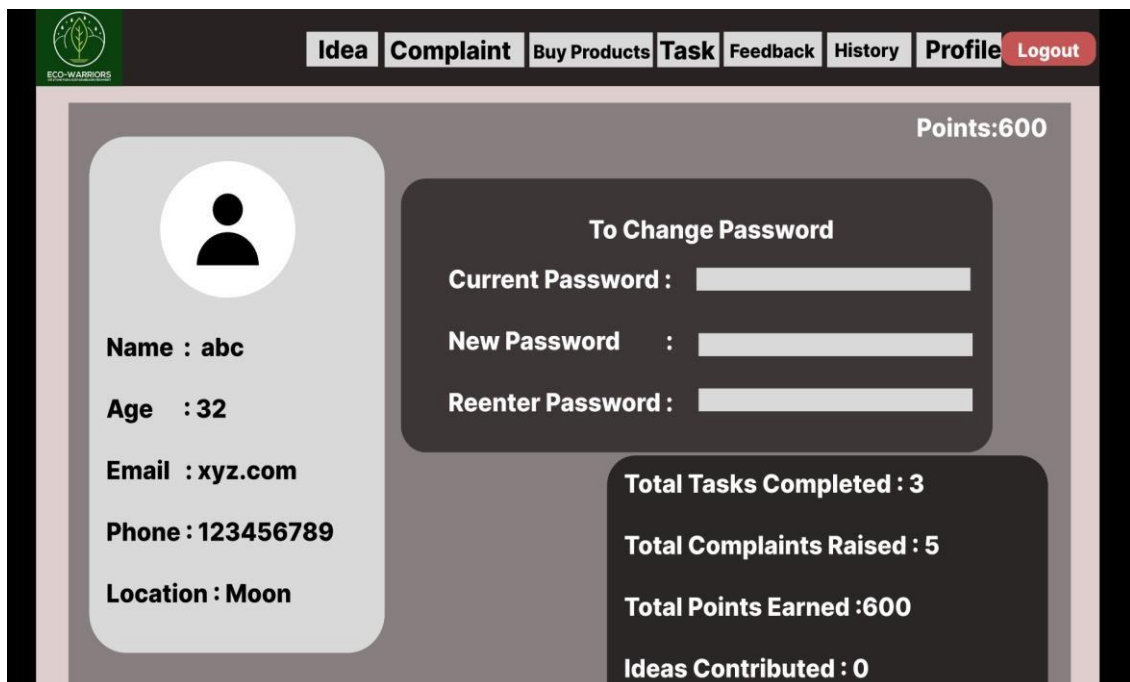
->In admin Login, admin can add heads (incharges) and he can also view the number of workers, users.

->In Incharge Login, incharges can grant leave to workers and he can view the number of workers and he can see the complaints and schedule work to workers and he can add products which are recycled from the collected waste.

->In Workers Login, workers can see the complaints and can buy the products and they can also see the rating given by Public users and they can also apply leave.

->In Public User Login, Users can schedule the waste pickup and can track their status of work and can give feedback for the work done by the Workers and can submit idea about the

❾ Users can share their Idea and can generate revenue in the form of Cashback points and with that Cashback points they can buy recycled products which are manufactured from reusable plastics from our website at cheaper prices.

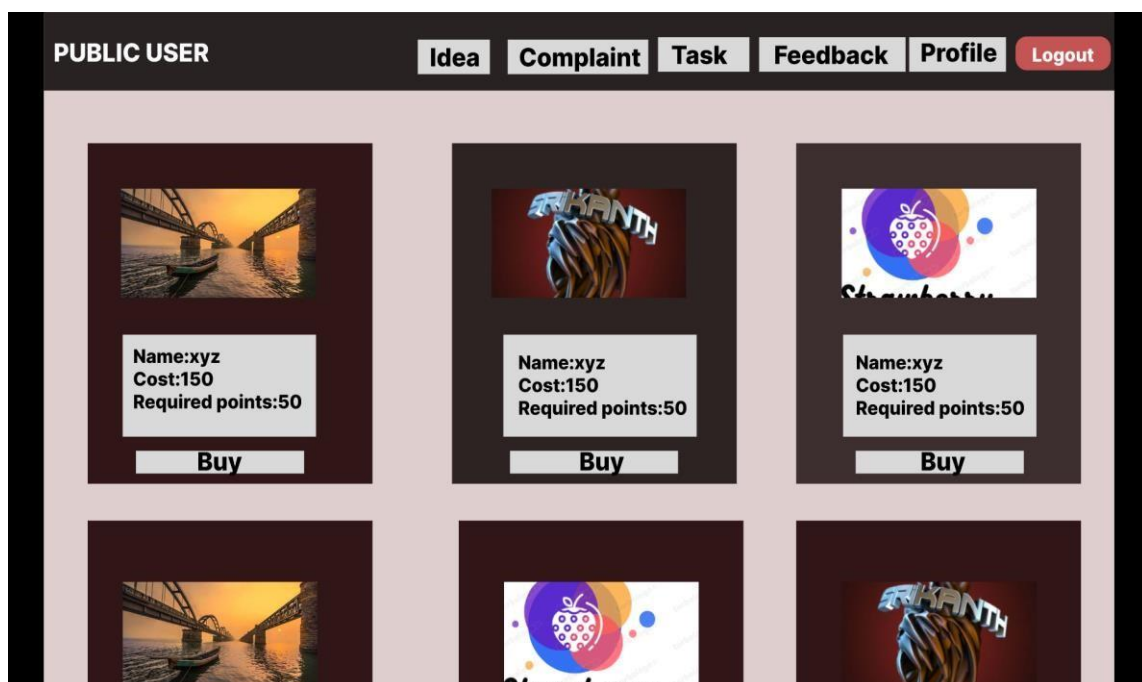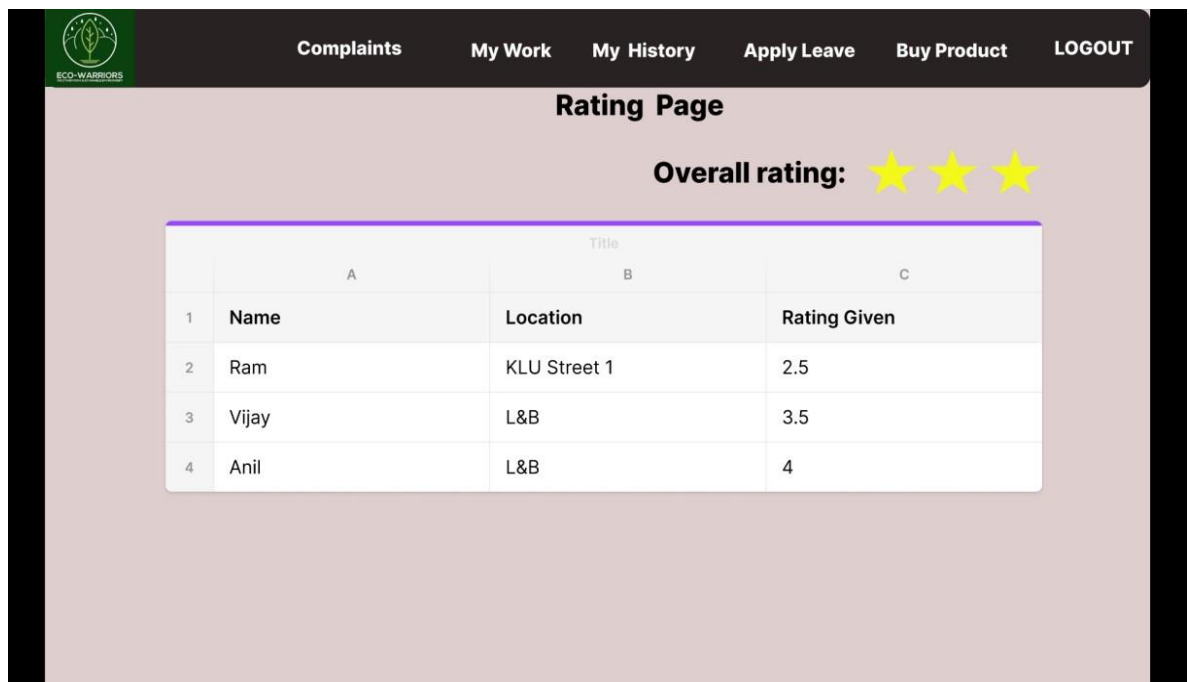**Fig-2:** User Dashboard

Fig-3: Idea Form

Fig-4: Buy products

❾ Workers can also generate Cashback points based on their rating given by users and they can also buy products and get bonus based on their cashback points.
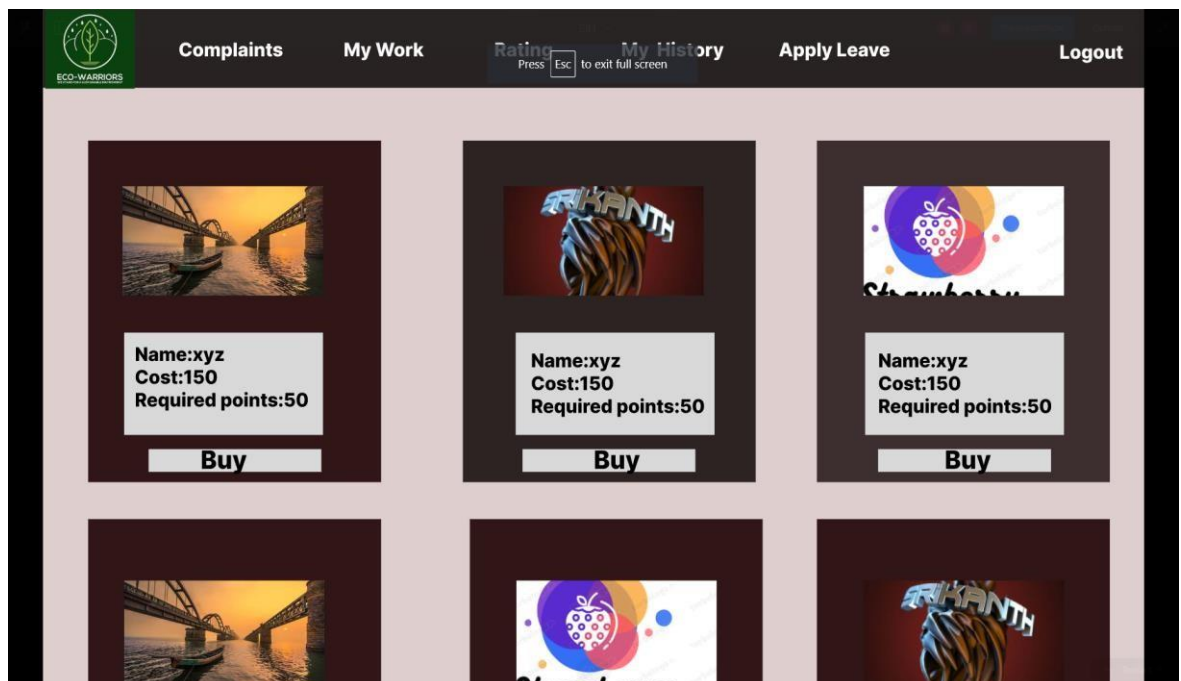

Fig-5: Worker rating

Fig-6: Buy products

❾ Users can conveniently schedule pickups for their recyclable waste materials from the comfort of their homes. This eliminates the need for users to transport their waste to recycling centers .

❾ Users can track the progress of their waste pickup and receive notifications and updates on the status of their requests.

❾ We will provide this website to government of Andhra Pradesh so that the users in the villages can know about it and can use/access through Panchayat Office and the users in the cities can easily access through the Website.

Prototype Link:
https://www.figma.com/proto/vLEVdedxO8jDnrZO0jvPn6/SIH?type=design&node-id=1-45&t=DlU2C3HCK95WrziB-0&scaling=scale-down&page-id=0%3A1&starting-point-node-id=1%3A2
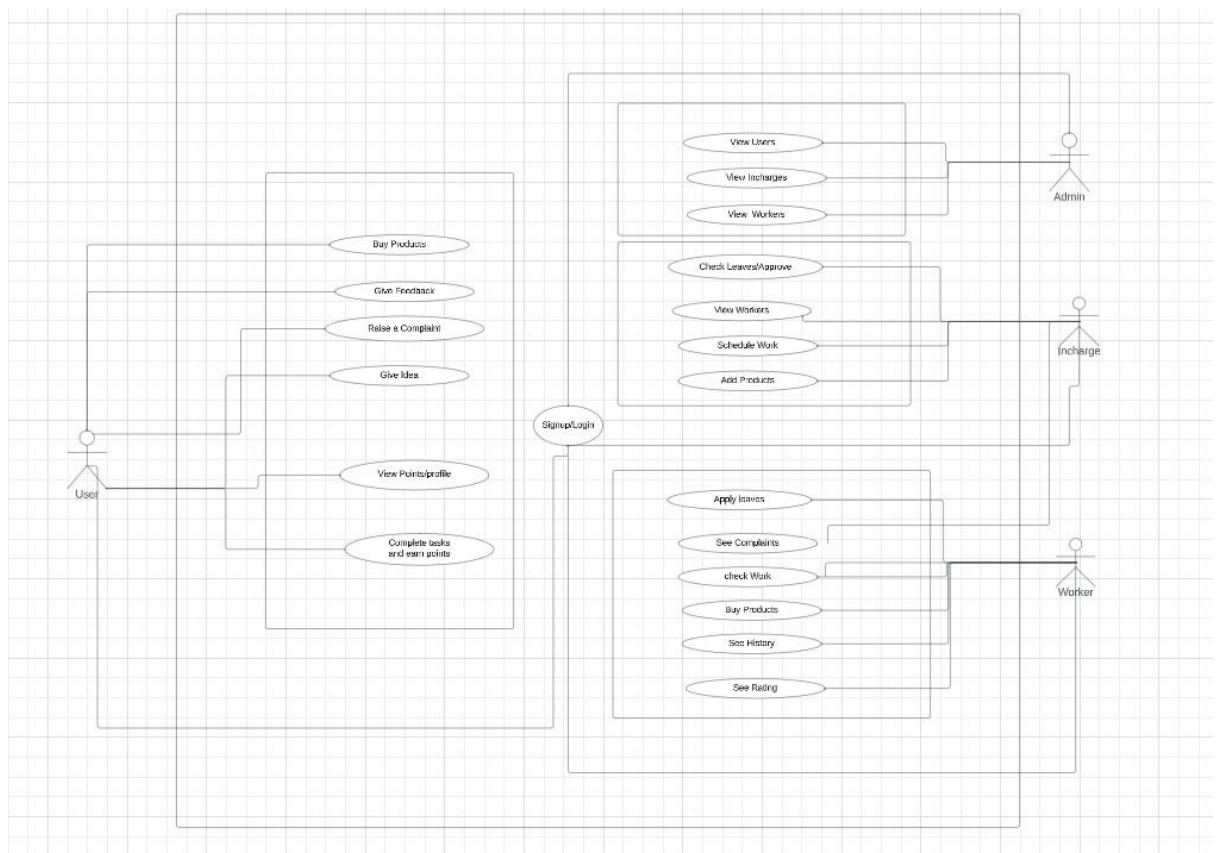
Use Case Diagram:

Fig-7:UML Diagram